

0060179

**SAF-B03-015**  
**Remaining Sites Confirmation**  
**Sampling-Soil**  
**FINAL DATA PACKAGE**

**E:MAIL RESULTS TO:**

Patty Krueger

N/A  
INITIAL/DATE

Renee Nielson

N/A  
INITIAL/DATE

**MAIL COMPLETE COPY OF DATA PACKAGE TO:**

Ella Feist H9-01

BF  
INITIAL/DATE

Mike Stankovich H9-02

BF  
INITIAL/DATE

Bob Hynes H0-18

BF  
INITIAL/DATE

Jeanette Duncan H9-02

BF  
INITIAL/DATE

**COMMENTS: (PLEASE INCLUDE THE FOLLOWING ON THE COVER SHEET)**

SDG D00351 SAF-B03-015

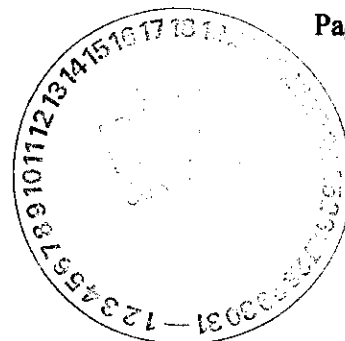
Rad only ☒ Chem only ☒ Rad & Chem

X Complete Partial

**Sample Location/Waste Site: 600-190**

**RECEIVED**  
AUG 18 2003

**EDMC**



**SUBMITTED TO:**

Joan Kessner  
Bechtel Hanford  
3350 George Washington Way, MS H0-25  
Richland, WA 99352

**REFERENCE DATA:**

Client Sample No.: J00P20 through J00P38  
P.O. No.: Not Available  
Sample Location: 600-190 and 600-132  
Sample Type: Bulk  
Method Reference: EPA-600/R-93/116  
DCL Set ID No.: 03-A-2468  
DCL Sample ID No.: 03-15730 through 03-15733  
Sample Receipt Date: 5/22/03  
Analysis Date: 6/5/03

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using EPA-600/R-93/116. The samples were acceptable upon receipt except where noted. The samples were examined under a stereomicroscope in a laboratory fume hood for general composition and phase separation. If needed, portions of the sample were removed and ground with a mortar and pestle before being mounted on a glass microscope slide. Mountings of representative portions of the material are prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy\*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the materials analyzed and are summarized on the attached bulk asbestos analysis data sheets. DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.

  
Shawn Smythe  
Analyst

  
Anna Marie Ristich  
Reviewer

\*Floor tiles, decorative paints, joint compounds, and cement materials require additional treatment in order to evaluate the concentration of small asbestos fibers bound in the material. Some samples may contain fibers that are not visible by PLM and can only be detected by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated.

DataChem Laboratories NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NIST.

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11 SANTA YORMA COURT  
NOVATO, CALIFORNIA 94945  
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D00351

**DataChem Laboratories  
Polarized Light Microscopy  
Asbestos Analytical Report**

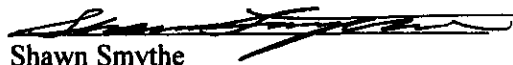
Client: Bechtel Hanford  
Location: 600-190 and 600-132  
Set ID: 03-A-2468

Client Sample ID:	J00P20	J00P21	J00P37	J00P38
DCL Sample ID:	03-15730	03-15731	03-15732	03-15733
<b>Macroscopic Examination</b>				
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Heterog.	Heterog.	Homog.	Homog.
Color:	Brown	Brown	Grey	Grey
Texture:	Granular	Granular	Pwdry/Fbrs	Crumbly
Description:	Soil	Soil	Material	Material
Analysis:	PLM	PLM	PLM	PLM
<b>Asbestiform Minerals</b>				
% Chrysotile:	Trace		>20≤30	
% Amosite:			>10≤20	
% Crocidolite:				
% Tremolite - Actinolite:				
% Anthophyllite:				
% Total Asbestos:	Trace	ND	>30≤50	ND
<b>Other Materials</b>				
% Cellulose:				
% Fiberglass:				
% Other Fibers:				
% Resin/Binder:				
% Non Fibrous:	>90≤100	>90≤100	>40≤50	>90≤100

ND = None Detected    Trace = <1%

Special Prep Procedures: None.

\*Notes: P. O. #: Not Available.

  
Shawn Smythe  
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting.... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

03-A-2468

<b>Bechtel Hanford Inc.</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>				<b>B03-015-113</b>		Page 1 of 1									
Collector R Fahlberg		Company Contact M Stankovich		Telephone No. 531-7620		Project Coordinator KESSNER, JH		Price Code <b>8B</b>									
Project Designation Remaining Sites Confirmation Sampling-Soil		Sampling Location 600-190		SAF No. B03-015		Air Quality <input type="checkbox"/>		Data Turnaround <b>24 Hours</b>									
Ice Chest No. <b>FED EX BOX</b>		Field Logbook No. EL 1577		COA C17HXU671C		Method of Shipment Fed EX											
Shipped To DataChem Laboratories		Offsite Property No. <b>N/A</b>		Bill of Lading/Air Bill No. <b>829/5245 5260</b>													
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b> Non-Rad Area, No Activity Required  <b>Special Handling and/or Storage</b> None				Preservation	None												
				Type of Container	Whirl Pack												
				No. of Container(s)	1												
				Volume	5g												
<b>SAMPLE ANALYSIS</b>  <b>03-</b>				Asbestos-BULK-EPA													
Sample No.	Matrix *	Sample Date	Sample Time														
J00P20	15730	SOIL	5-20-03	1410	X												
J00P21	15731	SOIL	5-20-03	1410	X												
J00P22	5-20-03	SOIL															
<b>CHAIN OF POSSESSION</b>				<b>Sign/Print Names</b>				<b>SPECIAL INSTRUCTIONS</b>				<b>Matrix *</b>					
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Personnel not available to relinquish samples from the 3728 Ref # <b>3A</b> on <b>5/21/03</b>				S=Soil SE=Sediment SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue WI=Wipe L=Liquid V=Vegetation X=Other					
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time											
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time											
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time											
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time											
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time											
LABORATORY SECTION		Received By		Disposal Method		Disposed By		Date/Time				Date/Time					
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time				Date/Time							

<b>Bechtel Hanford Inc.</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>				<b>B03-017-117</b>		Page 1 of 1														
Collector R Fahlberg/STANKOVICH <i>Bowers</i>		Company Contact M Stankovich		Telephone No. 531-7620		Project Coordinator KESSNER, JH		Price Code <b>9C</b> Data Turnaround <b>24 Hours</b>														
Project Designation Remaining Sites Confirmation Sampling-Other Solid		Sampling Location 600-132		SAF No. B03-017		Air Quality <input type="checkbox"/>																
Ice Chest No. <i>FED EX BOX</i>		Field Logbook No. EL 15778 <i>8X05-11-03</i>		COA C17HXU600C		Method of Shipment Fed Ex																
Shipped To DataChem Laboratories		Offsite Property No. <i>N/A</i>				Bill of Lading/Air Bill No. <i>8291 5245 5259-40521</i>																
POSSIBLE SAMPLE HAZARDS/REMARKS  Special Handling and/or Storage <i>None</i>					Preservation	None																
					Type of Container	Whirl Pack																
					No. of Container(s)	1																
					Volume	5g																
SAMPLE ANALYSIS					Asbestos-BULK-EPA																	
Sample No.	Matrix *	Sample Date	Sample Time																			
J00P37 <i>15732</i>	OTHER SOLID	<i>5-19-03</i>	<i>1105</i>	<i>X</i>																		
J00P38 <i>15733</i>	OTHER SOLID	<i>5-11-03</i>	<i>1130</i>	<i>X</i>																		
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS								Matrix *  S=Soil SE=Sediment SO=Solid SI=Sludge W = Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue WI=Wipe L=Liquid V=Vegetation X=Other								
Relinquished By/Removed From <i>Doug Bowers</i>		Date/Time <i>5-21-03/1600</i>		Received By/Stored In <i>REF 3A</i>												Date/Time <i>5-21-03/1600</i>						
Relinquished By/Removed From <i>REF 3A</i>		Date/Time <i>52103 1600</i>		Received By/Stored In <i>SCALES</i>												Date/Time <i>52103/1600</i>						
Relinquished By/Removed From <i>SCALES</i>		Date/Time <i>52103 1600</i>		Received By/Stored In <i>FED EX</i>												Date/Time						
Relinquished By/Removed From		Date/Time		Received By/Stored In												Date/Time						
Relinquished By/Removed From		Date/Time		Received By/Stored In												Date/Time						
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time																
LABORATORY SECTION		Received By <i>[Signature]</i>		Title <i>DECL</i>		Date/Time <i>5/22/03 16:10</i>																
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time																